Mad Minute #2

(Background knowledge probe)

Math 030 (Bob Lynn)

**Primary Concept:**

Geometry (formulas for perimeter, area, volume of very basic geometric figures)

**Purpose:**

Students will demonstrate their ability to identify which formula goes with which identification.

**Vocabulary:**

area, volume, perimeter, triangle, square, rectangle, parallelogram, trapezoid, cone, pyramid, rectangular solid, and cylinder

**Prompts and time considerations:**

Prompt #1 Give instructions

1 minute Students working aloneare given 10 expressions to try to align with the correct identifications

Prompt #2 Hand in to instructor with name on it so it can be given back. No grade involved – purely information on background knowledge.

Prompt #3 Instructor looks at these to see what the overall knowledge level is or formulas prior to instruction of Geometry Unit.

Prompt #4 Hand back the sheets to students. Have a 5 minute shoulder to shoulder discussion.

Prompt #5 Class discussion of the overall background knowledge of the class.

Prompt #6 Have students keep these and at the end of the unit prior to test. (Do the same thing again on the same sheet of paper to find out improvement.)

Prompt #7 Shoulder to shoulder discussion and group discussion to follow.

**Draw a line from the formula to the correct identification** (1 minute)

*P = 2l + 2w*  Circumference of Circle

*A = lw*

Area of Circle

*P = 4s* Area of Trapezoid

*A = s²*

*A = bh* Volume of Rectangular Solid

Surface area of Rectangular Solid

Area of Square

Perimeter of Square

Area of Rectangle

Perimeter of Rectangle

Area of Parallelogram

Volume of Pyramid

Surface area of Pyramid

Area of Triangle

Surface area of Cylinder

Volume of Cylinder

Volume of Cone